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Developing Processing Techniques for Skylab Data
Monthly Progress Report, July 1974

EREP Investigation 456 M
NASA Contract NAS9-13280

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The following report serves as the seventeenth monthly progress report for EREP Investigation 456 M which is entitled "Developing Processing Techniques for Skylab Data". The financial report for this contract (NAS9-13280) is being submitted under separate cover.

The purpose of this investigation is to test information extraction techniques for SKYLAB S-192 data and compare with results obtained in applying these techniques to ERTS and aircraft scanner data.

Efforts initiated last month to process S-192 data provided through ERIM's EOS Systems Study were continued.

Attempts to graymap channels 5, 8, and 19 have revealed excessive bad scan lines in the data. Channels 17 and 18 appear to be much cleaner. The limited dynamic range in the data has caused much difficulty in mapping sufficient detail to permit accurate location of training areas within small agricultural field boundaries. Accordingly, a procedure is being defined to scale the data to other coordinate reference systems so that training areas can be defined by means of map and/or arbitrary photographic coordinates.

Preparation for the procedure has thus far involved the acquisition of USGS topographic map coverage (7.5 and 15 minute quadrangle sheets) and production of a large scale blow-up of a simultaneously acquired S-192B frame of photography of the test site. In addition, special forms have been designed that will permit keeping accurate track of processing costs and analysis efforts.

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